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#2	((sequen* <near/2> pattern*) <and> (prox* <near/2> sens*) <and> (slid* <near/2> (switch* or direct*)) <in> pdfdata) <and> (pyr >= 1950 <and> pyr <= 2007)	0
#3	((sequen* <near/4> pattern*) <and> (prox* <near/4> sens*) <and> (slid* <near/4> (switch* or direct*)) <in> pdfdata) <and> (pyr >= 1950 <and> pyr <= 2007)	0
#4	((sequen* <near/4> pattern*) <and> (prox* <near/4> sens*) <and> ((switch* or direct*)) <in> pdfdata) <and> (pyr >= 1950 <and> pyr <= 2007)	20

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Display Format: ◉ Citation ○ Citation & Abstract

view selected items Select All Deselect All

☐ **1. EMI emissions of modern PWM AC drives**
Skibinski, G.L.; Kerkman, R.J.; Schlegel, D.;
Industry Applications Magazine, IEEE
Volume 5, Issue 6, Nov.-Dec. 1999 Page(s):47 - 80
Digital Object Identifier 10.1109/2943.798337
AbstractPlus | Full Text: PDF(3140 KB) **IEEE JNL**
Rights and Permissions

☐ **2. Behavior analysis and training-a methodology for behavior engineering**
Colombetti, M.; Dorigo, M.; Borghi, G.;
Systems, Man and Cybernetics, Part B, IEEE Transactions on
Volume 26, Issue 3, June 1996 Page(s):365 - 380
Digital Object Identifier 10.1109/3477.499789
AbstractPlus | References | Full Text: PDF(2172 KB) **IEEE JNL**
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☐ **3. Particle-beam fabrication and in situ processing of integrated circuits**
Steckl, A.J.;
Proceedings of the IEEE
Volume 74, Issue 12, Dec. 1986 Page(s):1753 - 1774
AbstractPlus | Full Text: PDF(2022 KB) **IEEE JNL**
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☐ **4. Extraction of ocean wave parameters from HF backscatter received by a four-eleme analysis and application**
Gill, E.W.; Walsh, J.;
Oceanic Engineering, IEEE Journal of
Volume 17, Issue 4, Oct. 1992 Page(s):376 - 386
Digital Object Identifier 10.1109/48.180307
AbstractPlus | Full Text: PDF(812 KB) **IEEE JNL**
Rights and Permissions

☐ **5. Flexible syntactic matching of curves and its application to automatic hierarchical of silhouettes**
Gdalyahu, Y.; Weinshall, D.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on
Volume 21, Issue 12, Dec. 1999 Page(s):1312 - 1328
Digital Object Identifier 10.1109/34.817410
AbstractPlus | References | Full Text: PDF(1592 KB) **IEEE JNL**
Rights and Permissions

☐ **6. Automatic gait recognition based on statistical shape analysis**

Liang Wang; Tieniu Tan; Weiming Hu; Huazhong Ning;
Image Processing, IEEE Transactions on
Volume 12, Issue 9, Sept. 2003 Page(s):1120 - 1131
Digital Object Identifier 10.1109/TIP.2003.815251

AbstractPlus | References | Full Text: PDF(954 KB) **IEEE JNL**
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☐ **7. Web mining in soft computing framework: relevance, state of the art and future dire**
Pal, S.K.; Talwar, V.; Mitra, P.;
Neural Networks, IEEE Transactions on
Volume 13, Issue 5, Sep 2002 Page(s):1163 - 1177
Digital Object Identifier 10.1109/TNN.2002.1031947

AbstractPlus | References | Full Text: PDF(373 KB) **IEEE JNL**
Rights and Permissions

☐ **8. Linguistic analysis of experimental curves**
Mottl, V.V.; Muchnik, I.B.;
Proceedings of the IEEE
Volume 67, Issue 5, May 1979 Page(s):714 - 736

AbstractPlus | Full Text: PDF(2370 KB) **IEEE JNL**
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☐ **9. Automatic locomotion design and experiments for a Modular robotic system**
Kamimura, A.; Kurokawa, H.; Yoshida, E.; Murata, S.; Tomita, K.; Kokaji, S.;
Mechatronics, IEEE/ASME Transactions on
Volume 10, Issue 3, June 2005 Page(s):314 - 325
Digital Object Identifier 10.1109/TMECH.2005.848299

AbstractPlus | Full Text: PDF(856 KB) **IEEE JNL**
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☐ **10. Unbalance and harmonics detection in induction motors using an optical fiber sens**
Corres, J.M.; Bravo, J.; Arregui, F.J.; Matias, I.R.;
Sensors Journal, IEEE
Volume 6, Issue 3, June 2006 Page(s):605 - 612
Digital Object Identifier 10.1109/JSEN.2006.874441

AbstractPlus | Full Text: PDF(1176 KB) **IEEE JNL**
Rights and Permissions

☐ **11. Force interaction and allocation for the legs of a walking vehicle**
Klein, C.; Tae-Sang Chung;
Robotics and Automation, IEEE Journal of [legacy, pre - 1988]
Volume 3, Issue 6, Dec 1987 Page(s):546 - 555

AbstractPlus | Full Text: PDF(1016 KB) **IEEE JNL**
Rights and Permissions

☐ **12. The application of neural networks to fuel processors for fuel-cell vehicles**
Iwan, L.C.; Stengel, R.F.;
Vehicular Technology, IEEE Transactions on
Volume 50, Issue 1, Jan. 2001 Page(s):125 - 143
Digital Object Identifier 10.1109/25.917898

AbstractPlus | References | Full Text: PDF(624 KB) **IEEE JNL**
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☐ **13. Shielding and electrical performance of silicon detector supermodules**
Ely, R.P.; Weber, M.; Zimmermann, S.; Rong-Shyang Lu; Lujan, P.J.;
Nuclear Science, IEEE Transactions on
Volume 52, Issue 5, Part 3, Oct. 2005 Page(s):1892 - 1898
Digital Object Identifier 10.1109/TNS.2005.856902

AbstractPlus | Full Text: PDF(968 KB) **IEEE JNL**
Rights and Permissions

☐ **14. HMM based online handwriting recognition**
Jianying Hu; Brown, M.K.; Turin, W.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on
Volume 18, Issue 10, Oct. 1996 Page(s):1039 - 1045
Digital Object Identifier 10.1109/34.541414
AbstractPlus | References | Full Text: PDF(792 KB) **IEEE JNL**
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☐ **15. Modeling context-aware e-learning scenarios**
Derntl, M.; Hummel, K.A.;
Pervasive Computing and Communications Workshops, 2005. PerCom 2005 Workshops International Conference on
8-12 March 2005 Page(s):337 - 342
Digital Object Identifier 10.1109/PERCOMW.2005.60
AbstractPlus | Full Text: PDF(352 KB) **IEEE CNF**
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☐ **16. A hierarchical system structure for coordinated control of industrial manipulators**
Kang Shin; Malin, S.;
Robotics and Automation. Proceedings. 1984 IEEE International Conference on
Volume 1, Mar 1984 Page(s):609 - 619
AbstractPlus | Full Text: PDF(952 KB) **IEEE CNF**
Rights and Permissions

☐ **17. Dynamics of projective adaptive resonance theory model: the foundation of PART**
Yongqiang Cao; Jianhong Wu;
Neural Networks, IEEE Transactions on
Volume 15, Issue 2, March 2004 Page(s):245 - 260
Digital Object Identifier 10.1109/TNN.2004.824261
AbstractPlus | References | Full Text: PDF(440 KB) **IEEE JNL**
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☐ **18. Distributed Data Streams Indexing using Content-Based Routing Paradigm**
Bulut, A.; Singh, A.K.; Vitenberg, R.;
Parallel and Distributed Processing Symposium, 2005. Proceedings. 19th IEEE Internatio
04-08 April 2005 Page(s):94 - 94
Digital Object Identifier 10.1109/IPDPS.2005.170
AbstractPlus | Full Text: PDF(304 KB) **IEEE CNF**
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☐ **19. Amplitude spectrum-based gait recognition**
Guoying Zhao; Rui Chen; Guoyi Liu; Hua Li;
Automatic Face and Gesture Recognition, 2004. Proceedings. Sixth IEEE International C
17-19 May 2004 Page(s):23 - 28
Digital Object Identifier 10.1109/AFGR.2004.1301504
AbstractPlus | Full Text: PDF(1421 KB) **IEEE CNF**
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☐ **20. Experimental validation of pulse contour methods for estimating stroke volume at**
Yinghong Yu; Jiang Ding; Lili Liu; Salo, R.; Spinelli, J.; Tockman, B.; Pochet, T.; Auricchio
Engineering in Medicine and Biology Society, 1998. Proceedings of the 20th Annual Inter Conference of the IEEE
29 Oct.-1 Nov. 1998 Page(s):401 - 404 vol.1
Digital Object Identifier 10.1109/IEMBS.1998.745928
AbstractPlus | Full Text: PDF(376 KB) **IEEE CNF**

L7: Entry 13 of 13 File: USPT Sep 9, 1980

DOCUMENT-IDENTIFIER: US 4221975 A
TITLE: Touch activated controller and method

Abstract Text (1):
A touch activated controller generates UP/DOWN control signals in response to movement of a human finger (or other comparable contact) along a control surface thereof. The UP information is derived from movement of the finger in one direction and the DOWN information is derived from movement in a substantially opposite direction. This system generates a sequence of control signals in one or the other of the two directions. In addition, when the finger is removed from the device the output remains in its last previous state or condition existing before removing the finger. Thus, the logic of the system is sensitive substantially to motion and direction of movement so that the logic of the operation of the device closely resembles the motion of a thumbwheel control. Merely placing a finger on the surface of thumbwheel or on the surface of the disclosed device generates no change in the position of the thumbwheel or the output of the device herein. When a finger is moved in one direction while in contact with the control surface of the device or the thumbwheel the output of the device will generate control signals counting up or down depending on the direction of movement of the finger.

Brief Summary Text (5):
In general, a touch activated controller for generating signals adapted to be coupled to operate apparatus in response thereto comprises a body of insulating material and a series of discrete sense lines forming portions of capacitors carried in closely spaced relation by the insulation material. Each of the sense lines functions as one plate of a capacitor when in the proximate presence of the person's finger or other body portion. A series of discrete sensing circuits are respectively associated with related ones of the sense lines. The circuits serve to generate a first digital output in response to the absence of a body portion at a sense line associated therewith and a second digital output in response to the presence of a body portion thereat so as to sense and indicate the presence of a body portion in proximity to each of the sense lines. Means are coupled to the last named means for generating a sequence of control signals representing increasing or decreasing information dependent upon movement of the human finger or other body part across the sense lines in one or another of two substantially opposite directions.

Detailed Description Text (16):
Circuits 40 are arranged whereby in the absence of a capacitance located on the input leads 41-55 thereof the output lead 57 will provide a digital zero. On the other hand when a person's finger is sufficiently close to one of the sense lines 19, i.e. to be in the "proximate presence" of a sense line 19, so as to cause it to constitute a capacitance on the input line of the circuit, the output on lead 57 becomes a digital "1" as now to be described.

Detailed Description Text (18):
When sense line 19 is not in the proximate presence of a finger the resulting value

of capacitance associated with input line 41 (or input lines 42-55 for the remaining circuits 40) is zero or near zero. Under these conditions, the voltage at 38 from operational amplifier 37 will be at or nearly equal to the voltage at 62.

CLAIMS:

2. In a touch activated controller for generating a cyclic sequence of control signals representing increasing or decreasing information dependent upon the direction of movement of a human finger or other body part thereacross, a support body, a layer of insulating material carried by said body, a series of conductive elements carried on the obverse surface of said layer in spaced apart relation distributed along said obverse surface and adapted to be disposed and spaced sufficiently closely so that a human finger can be moved in a continuous plane thereacross from one to the next while continuously overlapping a plurality of each of said conductive elements in the proximate presence thereof, each of said conductive elements serving to form a capacitor portion, a series of conductors carried on the reverse side of said layer and extending therealong, said conductors being spaced laterally apart and distributed across the width of said reverse side, and means interconnecting successive ones of said conductive elements to successive ones of said conductors to couple to said conductors the equivalent of a capacitor whenever a human finger or body part is in the proximate presence of one of said conductive elements.

3. A touch activated UP/DOWN controller for generating signals adapted to be coupled to operate apparatus in response thereto comprising a body of insulating material, a series of discrete passive portions carried by said insulation and disposed so that a human finger can be moved in a continuous plane thereacross from one to the next while continuously overlapping a plurality of said passive portions in the proximate presence of each, a series of discrete sensing circuit means respectively associated with related ones of said passive portions, said portions serving to develop an input signal for said circuit means when in the proximate presence of a person's finger or other body portion, said circuit means serving to provide a first digital output in response to the absence of a body portion at a discrete passive portion associated therewith and a second digital output in response to the presence of a body portion thereat, means coupled to said series of sensing circuit means serving to generate a sequence of control signals upon movement of the human finger or other body part across said series of discrete portions in one or another of two substantially opposite directions, said sequence of control signals representing increasing or decreasing information dependent upon the direction of movement of the finger.

4. In a touch activated controller for generating a cyclic sequence of control signals representing increasing or decreasing information dependent upon the direction of movement of a human finger or other body part thereacross, a support body, a layer of insulating material carried by said body, a series of elements carried on the obverse surface of said layer in spaced apart relation distributed along said obverse surface and adapted to be oriented so that a human finger can be moved thereacross in over lapping relation therebetween from one group thereof to another, each of said elements serving to develop a signal when in the proximate presence of a human finger or other body part, a series of conductors carried on the reverse side of said layer and extending therealong to carry said signals, said conductors being spaced laterally apart and distributed across the width of said reverse side, and means interconnecting successive groups of said elements to successive groups of said conductors to couple to said conductors said signals wherever a human finger or body part is disposed in the proximate presence of one of said conductive elements.

9. In a touch activated controller for generating signals adapted to be coupled to operate apparatus comprising a layer of insulation material, a series of sensing lines distributed in closely spaced relation along said layer, said series of sense

lines being arranged to include a plurality of groups of a predetermined number of sequentially arranged sense lines disposed in a cyclically recurring sequence of stages, a spacing layer of predetermined uniform thickness carried across said sense lines to be contacted by a person's finger to dispose the fingerprint portion of the finger in the proximate presence of some of the sense lines of one of said groups to provide an input signal from each said sense line, a series of discrete sensing circuit means corresponding in number to said predetermined number of sense lines of one of said groups thereof, each said sensing circuit means being coupled in common to a sense line at the same stage of each said group whereby each sensing circuit means is coupled to more than one sense line to permit the pattern of sense lines in the proximate presence of the fingerprint portion of a finger to move from one group to the next.

Previous Doc Next Doc Go to Doc#

L7: Entry 13 of 13 File: USPT Sep 9, 1980

US-PAT-NO: 4221975
DOCUMENT-IDENTIFIER: US 4221975 A

TITLE: Touch activated controller and method

DATE-ISSUED: September 9, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ledniczki; Ferenc	Foster City	CA		
Patak; Richard J.	San Jose	CA		
Wayne; Ronald G.	Milpitas	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Touch Activated Switch Arrays, Inc.	Santa Clara	CA			02

APPL-NO: 05/897686 [PALM]
DATE FILED: April 19, 1978

INT-CL-ISSUED: [02] G08C 9/02, H01H 35/00

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPS	H03 K 17/94	20060101
CIPS	H03 K 17/96	20060101

US-CL-ISSUED: 307/116; 340/365C
US-CL-CURRENT: 307/116; 341/20, D13/158

FIELD-OF-CLASSIFICATION-SEARCH: 340/365C, 340/337, 340/332, 340/325, 340/21, 340/524, 328/5, 307/116, 307/119, 307/120, 307/121, 307/122, 307/123, 307/149, 307/152, 84/DIG.7, 361/181
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	T904088	November 1972	Crouse	340/365C
☐	3648029	March 1972	Ungnadner	340/21 X
☐	3786497	January 1974	Davis	340/365C X
☐	3921166	November 1975	Volpe	340/365C
☐	4121204	October 1978	Welch et al.	361/181 X

ART-UNIT: 211

PRIMARY-EXAMINER: Hix; L. T.

ASSISTANT-EXAMINER: Dwyer; James L.

ATTY-AGENT-FIRM: Flehr, Hohbach, Test, Albritton & Herbert

ABSTRACT:

A touch activated controller generates UP/DOWN control signals in response to movement of a human finger (or other comparable contact) along a control surface thereof. The UP information is derived from movement of the finger in one direction and the DOWN information is derived from movement in a substantially opposite direction. This system generates a sequence of control signals in one or the other of the two directions. In addition, when the finger is removed from the device the output remains in its last previous state or condition existing before removing the finger. Thus, the logic of the system is sensitive substantially to motion and direction of movement so that the logic of the operation of the device closely resembles the motion of a thumbwheel control. Merely placing a finger on the surface of thumbwheel or on the surface of the disclosed device generates no change in the position of the thumbwheel or the output of the device herein. When a finger is moved in one direction while in contact with the control surface of the device or the thumbwheel the output of the device will generate control signals counting up or down depending on the direction of movement of the finger.

9 Claims, 10 Drawing figures

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Search Results - Record(s) 1 through 10 of 13 returned.

☐ 1. Document ID: US 20060247692 A1

L7: Entry 1 of 13 File: PGPB Nov 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060247692
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060247692 A1

TITLE: Method and apparatus for optimizing cardiac resynchronization therapy

PUBLICATION-DATE: November 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yang; Zhongping	Woodbury	MN	US
Hjelle; Mark A.	White Bear Lake	MN	US
Hine; Douglas S.	Forest Lake	MN	US

US-CL-CURRENT: 607/9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 20060062940 A1

L7: Entry 2 of 13 File: PGPB Mar 23, 2006

PGPUB-DOCUMENT-NUMBER: 20060062940
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060062940 A1

TITLE: HOLIDAY COUNTDOWN INTERACTIVE DISPLAY

PUBLICATION-DATE: March 23, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Steiger; Theresa F.	Liberty	MO	US
Short; Nancy	Roeland Park	KS	US
Donikowski; Ruth	Kansas City	MO	US

Larsen; Kristine	Prairie Village	KS	US
Olson; Keri Lauderdale	Lee's Summit	MO	US
Staley; Tim	Lenexa	KS	US

US-CL-CURRENT: 428/18; 428/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 3. Document ID: US 20050137648 A1

L7: Entry 3 of 13 File: PGPB Jun 23, 2005

PGPUB-DOCUMENT-NUMBER: 20050137648
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050137648 A1

TITLE: System and method suitable for treatment of a patient with a neurological deficit by sequentially stimulating neural pathways using a system of discrete implantable medical devices

PUBLICATION-DATE: June 23, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Cosendai, Gregoire	Cudrefin	CA	CH
Zilberman, Yitzhak	Santa Clarita	CA	US
Kuschner, Doug	Santa Clarita	CA	US
Ripley, Anne Marie	Los Angeles	FL	US
Turk, Ruth	Bentley	CA	GB
Burridge, Jane	Salisbury	CA	GB
Notley, Scott V.	Southhampton	CA	GB
Davis, Ross	Melbourne Beach	CA	US
Hansen, Morten	Valencia	CA	US
Mandell, Lee J.	West Hills		US
Schulman, Joseph H.	Santa Clarita		US
Dell, Robert Dan	Valencia		US
Gord, John C.	Venice		US

US-CL-CURRENT: 607/48

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 4. Document ID: US 20040263494 A1

L7: Entry 4 of 13 File: PGPB Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040263494
PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040263494 A1

TITLE: Location sensitive display device, system, and method of providing animation sequences

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Poor, Kyle W.	Orlando	FL	US
Holzberg, Roger S.	Burbank	CA	US
Dietz, Paul H.	Hopkinton	MA	US
Stein, Lawrence P.	Windermere	FL	US
Swirsky, Robert	Sunnyvale	CA	US

US-CL-CURRENT: 345/204

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 5. Document ID: US 20020143368 A1

L7: Entry 5 of 13 File: PGPB Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020143368
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020143368 A1

TITLE: Four-chamber pacing system for optimizing cardiac output and determing heart condition

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bakels, Arnoldus	Simpelved		NL
Leinders, Robert	Limbricht		NL
de Roos, Cobus	Landgraaf		NL

US-CL-CURRENT: 607/9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 6. Document ID: US 20010010009 A1

L7: Entry 6 of 13 File: PGPB Jul 26, 2001

PGPUB-DOCUMENT-NUMBER: 20010010009
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010010009 A1

TITLE: Four-chamber pacing system for optimizing cardiac output and determining heart condition

PUBLICATION-DATE: July 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bakels, Arnoldus	Simpelveld		NL
Leinders, Robert	Limbricht		NL
de Roos, Cobus	Landgraaf		NL

US-CL-CURRENT: 607/9

☐ 7. Document ID: US 6754530 B2

L7: Entry 7 of 13 File: USPT Jun 22, 2004

US-PAT-NO: 6754530
DOCUMENT-IDENTIFIER: US 6754530 B2

TITLE: Four-chamber pacing system for optimizing cardiac output and determining heart condition

☐ 8. Document ID: US 6238420 B1

L7: Entry 8 of 13 File: USPT May 29, 2001

US-PAT-NO: 6238420
DOCUMENT-IDENTIFIER: US 6238420 B1

TITLE: Four-chamber pacing system for optimizing cardiac output and determining heart condition

☐ 9. Document ID: US 6223082 B1

L7: Entry 9 of 13 File: USPT Apr 24, 2001

US-PAT-NO: 6223082
DOCUMENT-IDENTIFIER: US 6223082 B1
**** See image for Certificate of Correction ****

TITLE: Four-chamber pacing system for optimizing cardic output and determining heart condition

10. Document ID: US 6223079 B1

L7: Entry 10 of 13 File: USPT Apr 24, 2001

US-PAT-NO: 6223079
DOCUMENT-IDENTIFIER: US 6223079 B1
**** See image for Certificate of Correction ****

TITLE: Bi-ventricular pacing method

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

Terms	Documents
L6 not L4	13

Display Format: - Change Format

Previous Page Next Page Go to Doc#

L1: Entry 1 of 2 File: PGPB Jun 23, 2005

PGPUB-DOCUMENT-NUMBER: 20050137765
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050137765 A1

TITLE: Vehicle accessory proximity sensor slide switch

PUBLICATION-DATE: June 23, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hein, David A.	Sterling Heights	MI	US
Hicks, Thomas	Livonia	MI	US
Mulvihill, James A.	Royal Oak	MI	US
Edwards, Lori A.	Ann Arbor	MI	US

APPL-NO: 10/742341 [PALM]
DATE FILED: December 19, 2003

INT-CL-PUBLISHED: [07] G06F 19/00

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	G06 F 19/00	20060101

US-CL-PUBLISHED: 701/036; 307/010.1
US-CL-CURRENT: 701/36; 307/10.1

REPRESENTATIVE-FIGURES: 3

ABSTRACT:

A method is provided for operating a proximity sensing unit for controlling an accessory device of a vehicle. A plurality of proximity sensors is disposed in a sequential pattern within a sensing unit whereby the proximity sensors are responsive to a manual activation. At least two activation signals are received from at least two proximity sensors in response to the manual activation. An activation sequence of at least two activation signals is determined. One of a plurality of control actions associated with the activation sequence is selected. A control action is initiated for controlling an operation of the accessory device.

End of Result Set

Generate Collection Print

L1: Entry 2 of 2 File: DWPI Jun 23, 2005

DERWENT-ACC-NO: 2005-487238
DERWENT-WEEK: 200549

TITLE: Proximity sensing unit operating method for controlling vehicle accessory device, involves selecting control actions associated with activation sequence, and initiating control action for controlling operation of accessory device

INVENTOR: EDWARDS, L A; HEIN, D A ; HICKS, T ; MULVIHILL, J A

PATENT-ASSIGNEE: EDWARDS L A (EDWAI), HEIN D A (HEINI), HICKS T (HICKI), MULVIHILL J A (MULVI)

PRIORITY-DATA: 2003US-0742341 (December 19, 2003)

Search Selected Search ALL Clear

PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	US 20050137765 A1	June 23, 2005		010	G06F019/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20050137765A1	December 19, 2003	2003US-0742341	

INT-CL (IPC): G06F 19/00

ABSTRACTED-PUB-NO: US20050137765A
BASIC-ABSTRACT:

NOVELTY - The method involves providing a set of proximity sensors (12) placed in a sequential pattern within a sensing unit. Two activation signals are received from the sensors in response to a manual activation. An activation sequence of the activation signals is determined. A set of control actions associated with the activation sequence is selected. A control action is initiated for controlling an operation of an accessory device.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a vehicle accessory control sensing unit.

USE - Used for operating a proximity sensing unit for controlling an accessory device of a vehicle.

ADVANTAGE - The control actions associated with the activation sequence is selected

and initiated, thus effectively controlling the accessory device of the vehicle.

DESCRIPTION OF DRAWING(S) - The drawing shows an illustration of an accessory control architecture.

Sensors 12

LED 18

Controller 22

Sensor control circuit board 24

Wire harness 25

ABSTRACTED-PUB-NO: US20050137765A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.3/10

DERWENT-CLASS: S03 U21 X22 X26
EPI-CODES: S03-C02B; S03-C06; U21-B02C1; X22-J; X22-J03A; X22-X06D; X22-X06X; X26-H; X26-U07;

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L5: Entry 3 of 4 File: USPT Sep 9, 1980

DOCUMENT-IDENTIFIER: US 4221975 A
TITLE: Touch activated controller and method

Abstract Text (1):
A touch activated controller generates UP/DOWN control signals in response to movement of a human finger (or other comparable contact) along a control surface thereof. The UP information is derived from movement of the finger in one direction and the DOWN information is derived from movement in a substantially opposite direction. This system generates a sequence of control signals in one or the other of the two directions. In addition, when the finger is removed from the device the output remains in its last previous state or condition existing before removing the finger. Thus, the logic of the system is sensitive substantially to motion and direction of movement so that the logic of the operation of the device closely resembles the motion of a thumbwheel control. Merely placing a finger on the surface of thumbwheel or on the surface of the disclosed device generates no change in the position of the thumbwheel or the output of the device herein. When a finger is moved in one direction while in contact with the control surface of the device or the thumbwheel the output of the device will generate control signals counting up or down depending on the direction of movement of the finger.

Brief Summary Text (5):
In general, a touch activated controller for generating signals adapted to be coupled to operate apparatus in response thereto comprises a body of insulating material and a series of discrete sense lines forming portions of capacitors carried in closely spaced relation by the insulation material. Each of the sense lines functions as one plate of a capacitor when in the proximate presence of the person's finger or other body portion. A series of discrete sensing circuits are respectively associated with related ones of the sense lines. The circuits serve to generate a first digital output in response to the absence of a body portion at a sense line associated therewith and a second digital output in response to the presence of a body portion thereat so as to sense and indicate the presence of a body portion in proximity to each of the sense lines. Means are coupled to the last named means for generating a sequence of control signals representing increasing or decreasing information dependent upon movement of the human finger or other body part across the sense lines in one or another of two substantially opposite directions.

Detailed Description Text (16):
Circuits 40 are arranged whereby in the absence of a capacitance located on the input leads 41-55 thereof the output lead 57 will provide a digital zero. On the other hand when a person's finger is sufficiently close to one of the sense lines 19, i.e. to be in the "proximate presence" of a sense line 19, so as to cause it to constitute a capacitance on the input line of the circuit, the output on lead 57 becomes a digital "1" as now to be described.

CLAIMS:

2. In a touch activated controller for generating a cyclic sequence of control signals representing increasing or decreasing information dependent upon the

direction of movement of a human finger or other body part thereacross, a support body, a layer of insulating material carried by said body, a series of conductive elements carried on the obverse surface of said layer in spaced apart relation distributed along said obverse surface and adapted to be disposed and spaced sufficiently closely so that a human finger can be moved in a continuous plane thereacross from one to the next while continuously overlapping a plurality of each of said conductive elements in the proximate presence thereof, each of said conductive elements serving to form a capacitor portion, a series of conductors carried on the reverse side of said layer and extending therealong, said conductors being spaced laterally apart and distributed across the width of said reverse side, and means interconnecting successive ones of said conductive elements to successive ones of said conductors to couple to said conductors the equivalent of a capacitor whenever a human finger or body part is in the proximate presence of one of said conductive elements.

4. In a touch activated controller for generating a cyclic sequence of control signals representing increasing or decreasing information dependent upon the direction of movement of a human finger or other body part thereacross, a support body, a layer of insulating material carried by said body, a series of elements carried on the obverse surface of said layer in spaced apart relation distributed along said obverse surface and adapted to be oriented so that a human finger can be moved thereacross in over lapping relation therebetween from one group thereof to another, each of said elements serving to develop a signal when in the proximate presence of a human finger or other body part, a series of conductors carried on the reverse side of said layer and extending therealong to carry said signals, said conductors being spaced laterally apart and distributed across the width of said reverse side, and means interconnecting successive groups of said elements to successive groups of said conductors to couple to said conductors said signals wherever a human finger or body part is disposed in the proximate presence of one of said conductive elements.

9. In a touch activated controller for generating signals adapted to be coupled to operate apparatus comprising a layer of insulation material, a series of sensing lines distributed in closely spaced relation along said layer, said series of sense lines being arranged to include a plurality of groups of a predetermined number of sequentially arranged sense lines disposed in a cyclically recurring sequence of stages, a spacing layer of predetermined uniform thickness carried across said sense lines to be contacted by a person's finger to dispose the fingerprint portion of the finger in the proximate presence of some of the sense lines of one of said groups to provide an input signal from each said sense line, a series of discrete sensing circuit means corresponding in number to said predetermined number of sense lines of one of said groups thereof, each said sensing circuit means being coupled in common to a sense line at the same stage of each said group whereby each sensing circuit means is coupled to more than one sense line to permit the pattern of sense lines in the proximate presence of the fingerprint portion of a finger to move from one group to the next.

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